

p. 512 (1844).

*Pycnostelma paniculatum* K. SCHUMANN in ENGLER & PRANTL, Nat. Pfl.-fam. IV 2. p. 243 (1895).

*Cynanchum paniculatum* KITAGAWA nom. altern.

Area Geogr. Dahuria, Amur, Ussuri, Manshuria, China, Korea & Japonia.

2. **Vincetoxicum lateriflorum** (HEMSLEY) KITAGAWA comb. nov.

*Pycnostelma lateriflorum* HEMSLEY in Journ. Linn. Soc. XXVI, p. 102 (1889).

*Cynanchum lateriflorum* KITAGAWA nom. altern.

Area Geogr. China bor.

3. **Vincetoxicum mukdenense** KITAGAWA comb. & nom. nov.

*Pycnostelma leucanthum* KITAGAWA in Tokyo Bot. Mag. XLVIII p. 105 f. 14 (1934).

*Cynanchum dubium* KITAGAWA, Lineam. Fl. Mansh. p. 363 (1939).

Area Geogr. Manshuria.

LÉVEILLÉ 氏命名ノ種ニ就テハ今觸レナイコトニスル。

## 日本産ていかかづら類ノ檢訂

初 島 住 彦

Sumihiko HATSUSIMA: A revision of the Japanese *Trachelospermum*

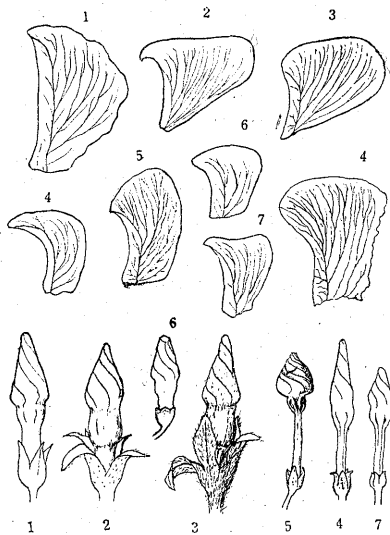
昔へていかかづらノ學名ト云へバ *T. jasminoides* ノ一點張りデアツタガ彼ノ有名ナ樹木學者 C. K. SCHNEIDER ガ 1916 年ニ *Plantæ Wilsonianæ* ニ多クノ新種ト、我國ノていかかづらトたうけうちくたうノ區別點ヲ指摘シ全然別種ナルコトヲ發表シテカラ大分本屬ノ種ノ關係ガ明ニナツテ來タ。其後我國デハ中井博士ガむにんていかかづらヲ獨立種トシテ引上げ、ていかかづらノ學名ニ *T. asiaticum* ヲ採用セラレタガ其後本屬ニ關スル研究ハ一時中絶シタガ最近ワシントン大學助教授 ROBERT E. WOODSON 並ニ中山大學助教授蔣英 (Y. TSIANG) 兩氏ノ東亞産本屬ニ關スル詳細ナル研究ガアリ從來不明デアツタ本屬ニ對シ重大ナル貢獻ヲナシタ。然シ筆者ハ兩氏ノ論文ヲ通讀シ本邦産ていかかづら屬ニ

就キ少々認識不足ノ點ガ相當アル様ニ思ハレタノデ本邦産本屬ニ就キ再吟味ヲナシテ見タ處以下記ス様ニ結論ニ達シタノデ記載シテ見ルコトニシタ。

以下記スルニ當ツテ各種別各ニ特徴ヲ舉ゲルヨリモ各種ノ分類上重要ト思ハルル部分ヲ總括的ニ記述スル方ガ便利ト考ヘタノデ各部分ニ就キ記スルト以下ノ如クナル。

(一) **葉及小枝** 先ヅ葉デハ大サデアルガ之ハ變化多ク一定シテキナイガ大體的ニ見テ大キナ葉ヲ有スルモノハけなしていかかづら、けていかかづら、りうきうていかかづら、むにんていかかづら等デ小サイ方デハひめていかかづラデアル。葉形、葉先、葉脚ノ形モ一定シテキナイ様デ變化ガ甚ダシイ。葉ノ下面ニオケル毛ノ有無ハ稍々有力ナ特徴トナルモノデけていかかづラデハ下面ニ毛ガ多ク秋迄殘存スルノガ普通デアルガ時トスルト下面ノ毛ガ殆ンド初メカラナイ場合モアル。たうきようちくたうハ初メ下面ニ毛ガ疎生シテキルガ秋頃ニハ小枝ト共ニ殆ンドナクナリ表面ハ著シク光澤ヲ呈シテ來ル。りうきうていかかづラハ花時少量ナガラ葉柄、葉裏ニ褐色ノ粗イ伏毛ヲ疎生シテキルガ秋頃ニハ無毛トナツテシマフ。むにんていかかづラノ毛モ大體本種ニ似テキルガ、ていかかづラデハ葉柄、小枝ニハ毛ガ多ク、葉裏ニハ通常初メカラ毛ガナイ。ひめていかかづラ、けなしていかかづラハ初メカラ全株無毛デアル。次ニ小枝デアルガ小枝ノ太サハ葉ノ大サト或ル程度迄相關ガアル様デ葉ノ大キイけなし、むにん、りうきう、けていかかづラ等デハ概シテ太くていかかづラ、ひめていかかづラデハ割合ニ細イモノガ多イ様デアル。小枝ノ毛ハていかかづラ、けていかかづラガ最も多ク柔カイ稍々長イ毛ヲ有シテキルガむにんていかかづラ、りうきうていかかづラデハ赤褐色ノ粗イ短毛ヲ疎生シテキル。けなし、ひめていかかづラハ葉ト同様初メカラ全ク無毛デアル。

(二) **花部** 花部デ先ヅ重要ナ點ハ萼片ノ形及有毛ノ程度デアル。最も特徴ノアルノハけていかかづラノ類デ長サ 2-5 mm モアリ葉狀ヲ呈シ、外反シ、外面ニハ長毛ヲ有シテキルノデー見他ノ類ト區別ガ出來ルガ時トスルト大分短カクナツテキルモノモアル。次ニ長イノハけなしていかかづラデ 2-4 mm 位モアルガ前者ノ様ニ先端ハ外反スルコトナク外面ハ全ク無毛デアル。次ニ長イノハていかかづラ、むにんていかかづラデアルガ前者デハ時トスルト非常ニ短クナリ毛ガ少イ型デハひめていかかづラト區別困難ナ場合モアル。むにんていかかづラデハ外面ニ往々微毛ヲ疎生スルコトガアル。短イ方デはりうきうていかかづラ、ひめていかかづラガアリ、前者ハ殊ニ短ク先端ハ圓ク縁邊及外面ニハ微毛ヲ有シテキルノデ容易ニ他ノ類ト區別出來ル。

Fig. 1. Petal and flower-bud ( $\times 1.5$ )

1. *T. asiaticum* var. *glabrum* NAKAI
2. *T. jasminoides* LEMAIRE
3. *T. jasminoides* var. *pubescens* MAKINO
4. *T. asiaticum* var. *intermedium* NAKAI
5. *T. foetidum* NAKAI
6. *T. lukiense* HATUSIMA
7. *T. gracilipes* HOOKER fil.

徴ノ一ツトナツテキルガ蔞、W兩氏トモ餘リ注意シテキナイ様デアル。最モ特徴ノアルノハむにんていかかづラデ卵形ヲナシテキル、ていかかづラハ通常長イ圓錐形トナルガ之モ一定シテキズ場合ニヨツテハひめていかかづラノ様ニ卵狀三角形ニ近イ形トナルモノモ出テ來ルノデ兩者ノ區別ニハ使用出來ナイ。其他ノ種類デハ著シイ特徴ヲ示スモノハナク附圖ノ通りデアル。蕾ノ大サハけなし、けていかかづラガ最モ大キク、小サイノハていか、ひめ、りうきうていかかづラデむにんていかかづラハ中間ニアル様デアル。之ノ蕾ノ形ハ花冠裂片ノ形狀ニ影響サレル様デ筆者ノ觀察ニヨレバ花冠裂片ガ細長ケレバ蕾モ細長クナル傾向ガアル様デアル。

花冠裂片ノ大サ形狀ハ變化ガ多ク蕾ノ大キイけていかかづラノ類、けなしでいかかづラデハ概シテ大キク此ニ反シ蕾ノ小サイりうきう、ひめ、ていかかづラデハ概シテ小サイ。上部ノ形ニ就テ云ヘバたうけうちくたうノ類デハ截形狀

次ニ重要ナ點ハ花筒内ニ於ケル雄蕊ノ附着位置デアルガ、之ハ花筒ノ膨脹部ノ長サト比例スルモノデ膨脹部ガ長ケレバ長イ程雄蕊モ下部ニ附着シテキル關係ニナツテキル様デアル。花筒ノ全長ニ比較シテ膨脹部ノ最モ長イノハけていかかづラノ類デ全花筒ノ1/2位ガ膨レテキル。然シ稀ニハ2/5—1/5位シカ膨レテキナイ様ナ個體モアルガ之等ハ例外的ノモノデ、萼片、葉裏ノ毛、花筒口邊部ノ毛等ヲ調ベルト一見シテ判定ガ着ク。次ニ比較的長イノはりうきうていかかづラデ1/3—1/4位ニナツテキル。其他ノ種類ハ皆1/4以下位ノ膨脹部ヲ有シ大シタ特徴トハナラナイ。次ニ花筒口邊部ノ毛ノ有無デアルガ此ハ甚ダ一定シタ特徴デ我國産デモヲ有スルモノハけていかかづラノ類ノミデアル。

次ニ蕾ノ形狀デアルガ此ハ甚ダ興味アルモノデ夾竹桃科植物デハ重要ナ特

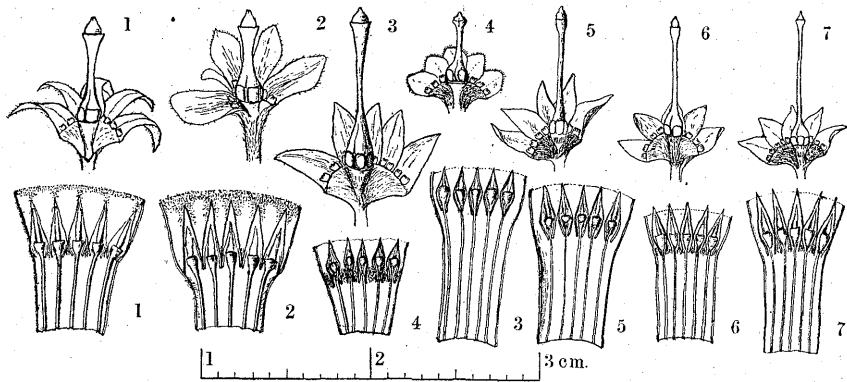


Fig. 2. Calyx and corolla-tube expanded.

1. *T. jasminoides* LEMAIRE. 2. *T. jasminoides* var. *pubescens* MAKINO. 3. *T. foetidum* NAKAI. 4. *T. liukiense* HATUSIMA. 5. *T. asiaticum* var. *glabrum* NAKAI. 6. *T. gracilipes* HOOKER fil. 7. *T. asiaticum* var. *intermedium* NAKAI.

トナルモノガ多クむにんていかかづらハ圓ク尖ル傾向ガアル様デ、ひめていかかづらハ截形又ハ凹入シタ形ノモノガ多ク中ニハていかかづらノ様ナ形ニナルモノモアツテ一定シテキナイ。

子房ノ形ハ一般ニ變化ガ少イガ只むにんていかかづらトけなしていかかづらデハ花柱ヨリ下ノ方ニ漸次太マリ他ノ類ノ様ニ急ニ太マラナイ點ガ異ナル様ニ思ハレルガ之モ多數ノ個體ニ就テ觀察シテミナイト斷言出來ナイ。

雄蕊先端部ノ花筒口邊ニ於ケル突出程度モ又稍、有力ナ特徴デW、蔣氏ハ特ニ之ノ點ニ重キヲ置イテキル。最モ特徴ノアルノハけていかかづらノ類デ口邊ヨリ遙カ内方ニ潜在シテキルノガ普通デアルガ中ニハ例外的ニ口邊部迄達シテキルモノモアル。其他ノ種類デハ大シタ差ハ認メラレナイ。W氏ハひめていかかづらトていかかづらノ區別ニ本特徴ヲ擧ゲテキルガ筆者ノ比較研究ノ結果ハ何等一定シタ決論ニ達シナカツタ。

次ニ花筒ノ長サデアルガ之モ變化ガ多ク花ノ大キイモノ程長イ様デ最モ短イノハリうきうていかかづらデ之ハ相當特徴ガアル。

最後ニ花筒内部ノモデアルガ之モ變化ガ多ク一定シタ特徴ト見做シ得ルカドウカ疑問ニ思ツテキル。毛ノアル場所ハ雄蕊ノ背部及ソノ上部デ、觀察シタ結果デハむにんていかかづら、けなしていかかづらノ二種ハ殆ンド無ク、最モ多イノハリうきうていかかづらデ其他ハ皆少量ナガラ有シテキル。雄蕊、蜜腺、柱頭ノ形狀、大サハ變化ガ多ク種ノ區別ニハ使用困難デアル。

(三) 果實及種子 之モ可成變化ヲヤルガ一定シタ特徴ガ無イデモナイ。即チ果實ノ太サニ就テ言ヘバけていかかづら、けなしていかかづら、むにんていかかづらハ太ク、殊ニけていかかづらデハ先端ガ急ニ細クナル傾向ガ見ラレル、之ニ反シていかかづら、ひめていかかづらハ細ク出来テキルノガ普通ノ様デアル。次ニ果實ノ開イテキル角度デアルガたうていかかづらデハ  $80^{\circ}$ — $180^{\circ}$  トナツテキルガけていかかづらデハ  $80^{\circ}$  以下デ  $40^{\circ}$ — $60^{\circ}$  位ノモノガ最モ多イ、其他ノ種類デハ 皆直角以下デ  $60^{\circ}$  以下ノモノガ普通デアルガていかかづらデハ時トスルト  $120^{\circ}$  位ノ角度ヲナスモノガアル。

種子ノ形狀、大キサモ又變化ガ多イガていかかづらノ類デハ長サニ比シ幅

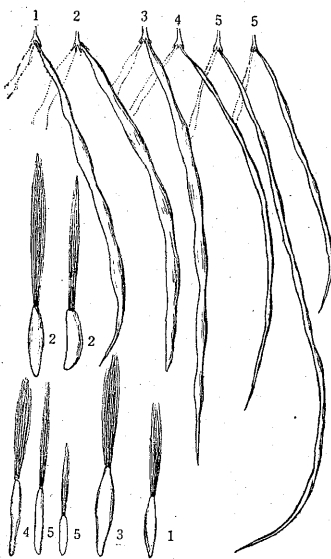


Fig. 3. Follicle (1/4) and seed with coma (1/2).

1. *T. asiaticum* var. *glabrum* NAKAI
2. *T. jasminoides* var. *pubescens* MAKINO
3. *T. foetidum* NAKAI
4. *T. gracilipes* HOOKER fil.
5. *T. asiaticum* var. *intermedium* NAKAI

ガ廣ク兩端ハ急ニ尖ツテキル。種髪ノ長サニ就テ言ヘバけていかかづらデハ種子ノ長サノ 2 倍位アルノガ普通デ其他ノモノハ大體種子ノ長サノ 1.5 倍位ガ普通デ稀ニ 2 倍位トナルコトモアル。

分布 分布ニ關シテハ W 氏ハむにんていかかづらガ東海道、九州別府方面ニモ分布スルコトヲ記シテオルガ之ハ少々疑問デ筆者ハ小笠原島ノ特産デハナイカト考ヘテキル。又 W, 蔣氏ハけなしていかかづらノ正體ヲ把ミ得ナイデキルガ本種ハ全株無毛デ、葉、小枝、果實、花共ニ大キク見方ニヨツテハ獨立種ニシタクナルガ中間型ガアルノデヤハリ變種トシタ方ガ穩當デハナイカト考ヘテキル。分布ハ九州北部ノ日本海岸及朝鮮南部ノ島嶼ニ知ラレテキル。ひめていかかづらハ W, 蔣兩氏ハ琉球、臺灣、支那南部、交趾支那等ヲ舉ゲテキルガ琉球産ハ筆者ノりうきうていかかづらデ眞ノひめていかかづらハ我國デハ臺灣ニ普通デアル。けていかかづらハ最初牧野博士ニヨリ命名サレタノデアルガ恐ラク當時博士ハ單ニていかかづらノ有毛品トシテ命名サレタノデアラウガ實際ハたうけうちくたうノ有毛型ノモノデアルノデ一寸變ナ具合ニナルガ物自身ニハ變リガナイノデ學名トシテハ生キルワケデアル。たうけう

ちくたうノ type ハ A. FORTUNE ガ上海デ採集シタ品デ、毛ガ少ク秋頃ニハ殆  
 ンド無毛ニナルモノデ我國デハ臺灣ダケニ産シ、果實ノ角度ハ  $80^{\circ}$ — $180^{\circ}$  トナ  
 ルガ其他ノ點デハけていかかづらト區別スベキ點ハナイ様デアル。又中井博士  
 ノちやうじかづらハ type ヲ見ナイガ繪及記載等カラ考へけていかかづらノ  
 稍、毛ノ少イ型デ葉片ガ稍、短カクナツター型カト考ヘテキル。

Key to the species and varieties of the Japanese *Trachelospermum*.

1. Stamens inserted at about midway or somewhat higher within the corolla tube; anthers wholly included within the corolla throat; calyx foliaceous, the lobes more or less spatulate; the orifice of the corolla conspicuously pubescent within; follicles and seed relatively stout; leaves more or less pubescent or papillose beneath.
  2. Plants usually glabrate to minutely pubescent at first, but soon become glabrous; follicles divaricate to an angle of  $80^{\circ}$ — $180^{\circ}$ .....*T. jasminoides*
  2. Plants usually densely pubescent throughout; follicles divaricate to an angle narrower than  $80^{\circ}$ , usually  $50^{\circ}$ — $60^{\circ}$ .....*T. jasminoides* var. *pubescens*
1. Stamens inserted near the orifice of the corolla tube; anthers' tips more or less exerted; calyx not foliaceous, the lobes not spatulate usually essentially trigonal; the orifice of the corolla usually glabrous within; follicles and seeds usually relatively slender; leaves glabrous or minutely hirsute beneath, but soon become glabrous.
  2. Flowers-buds broadly ovate to ovate; branchlets relatively stout, minutely rusty hirsute, but soon become glabrous; follicles relatively stout; seeds about 2.5 cm. long; ovary oblong-ovoid, gradually produced into the style. ....*T. foetidum*
  2. Flower-buds ovate-oblong or rarely ovate.
    3. Plants glabrous throughout even when unfolding.
      4. Calyx-lobes 2-4 mm. long; branchlets and follicles relatively stout; flowers and leaves usually large ....*T. asiaticum* var. *glabrum*.
      4. Calyx-lobes 1-2 mm. long; branchlets and follicles relatively slender, flowers and leaves usually smaller. ....*T. gracilipes*
    3. Branchlets more or less pubescent (rarely glabrous in *T. asiaticum* var. *intermedium*).
      4. Corolla-tubes very short; calyx-lobes broadly ovate to ovate obtuse 0.5-1 mm. long, ciliolate toward the tips; flowers relatively small;

branchletes relatively stout minutely rusty hirsute at first, but soon become glabrate; leaves somewhat thicker minutely hirsute at first. .... *T. liukuense*

4. Corolla-tubes 7-8 mm. long; calyx-lobes oblong-lanceolate acute to acuminate usually glabrous 2-3 mm. long; flowers relatively large; branchlets relatively slender, usually densely pubescent even in the autumn; leaves relatively thinner, glabrous beneath even when unfolding ..... *T. asiaticum* var. *intermedium*

1) ***Trachelospermum jasminoides*** (LINDL.) LEMAIRE in Gard. Fleur. I (1851) pl. 61.-SCHNEIDER in SARGENT, Pl. Wils. III (1916) 334.-NAKAI, Trees & Shrubs Jap. ed. 2 (1927) 421.-TSIANG in Sunyatsenia II (1934) 143, fig. 14; III (1936) 145, pro parte.-WOODSON in Sunyatsenia III (1936) 74, pro parte.-HANDEL-MAZZETTI, Symb. Sinic. VII-4 (1936) 990, pro parte.

*Rhynchospermum jasminoides* LINDLEY in Journ. Hort. Soc. Lond. I (1846) 74.

Nom. Nipp. *Tô-kyôtikutô*.

Distr. Formosa, China med. et austr.

var. ***pubescens*** MAKINO in Tokyo Bot. Mag. XXVI (1912) 122.

*Trachelospermum jasminoides* (non LEM.) SCHNEIDER, l.e. pro parte.-TSIANG, l.e.-WOODSON, l.e.-pro parte.

*Trachelospermum majus* NAKAI, Trees & Shrubs Jap. ed. 1 (1922) 309, f. 171

*Trachelospermum asiaticum* var. *pubescens* NAKAI, Fl. Sylv. Korea. XIV (1923) 13, t. II; Trees & Shrubs Jap. ed. 2 (1927) 421.

Nom. Nipp. *Ke-teikakazura*, *Tyôji-kazura*.

Distr. Honsyû, Sikoku, Kyûsyû, Quelpaert, China sept.

This is distinguishable from the glabrous type which LINDLEY used as a type of his *Rhynchospermum jasminoides* which was collected by A. FORTUNE at Shanghai, by the densely pubescent leaves and branchlets, and the less divergent follicles.

2) ***Trachelospermum foetidum*** NAKAI in Tokyo Bot. Mag. XXXVI (1922) 21, f. 2.-TSIANG in Sunyatsenia II-2 (1934) 135, f. 9.-WOODSON, l.e. III (1936) 87, pro parte (excl. syn. *T. majus* NAKAI).

*Trachelospermum jasminoides* (non LEM.) HATTORI in Journ. Coll. Sci. Imp. Univ. Tokyo XXII, art. 10 (1908) 34.

*Trachelospermum jasminoides* subsp. *foetida* MATSUMURA et NAKAI in Tokyo Bot. Mag. XXII (1908) 153.

*Trachelospermum divaricatum* (non KANITZ) WILSON in Journ. Arn. Arb. I (1919) 106.

Nom. Nipp. *Munin-teikakazura*.

Distr. Bonin.

3) ***Trachelospermum asiaticum*** NAKAI in Tokyo Bot. Mag. XXXVI (1922) 22 in nota.

var. **intermedium** NAKAI, Trees & Shrubs Jap. ed. 2 (1927) 419, f. 201.

*Nerium divaricatum* (non LINN.) THUNBERG, Fl. Jap. (1784) 110.

*Malouetia asiatica* SIEBOLD et ZUCCARINI in Abh. Akad. Münch. IV-3(1846) 163, pro minor. part.

*Parenchites Thunbergii* A. GRAY in Mem. Amer. Acad. II-6 (1859) 403, pro parte.

*Trachelospermum divaricatum* (THUNB.) KANITZ, Termez. Fuzet. 2 (1878), 46.

*Trachelospermum asiaticum* NAKAI in Tokyo Bot. Mag. 36 (1922) 22 in nota, pro pro parte.-TSIANG in Sunyatsenia II-2 (1934) 133, f. 8; III-2-3 (1936) 144, pro pro parte.-WOODSON in Sunyatsenia III-2-3 (1936) 88, pro parte (excl. syn. *T. jasminoides* var. *pubescens* MAKINO).

*Trachelospermum jasminoides* (non LEM.) FRANCHET et SAVATIER, Enum. Pl. Jap II (1879) 435.

*Trachelospermum asiaticum* var. *oblanceolata* NAKAI, Trees & Shrubs Jap. ed. 2 (1927) 423, f. 202.

*Trachelospermum crocostomum* STAPF in Bull. Misc. Inf. Kew (1906) 74.

Nom. Nipp. *Teika-kazura*.

Distr. Honsyû. Sikoku, Kyûsyû, Quelpaert.

var. **glabrum** NAKAI, Fl. Sylv. Korea. XIV(1923)13, t. III; Trees & Shrubs Jap. ed. 2 (1927) 420.

*Malouetia asiatica* SIEBOLD et ZUCCARINI, l.c. p. 169, pro parte.



*Parechites Thunbergii* A. GRAY, l.c. p. 403, pro parte.

Nom. Nipp. *Kenasi-teikakazura*.

Distr. Honsyû, Kyûsyû sept., Korea aust.

4) ***Trachelospermum gracilipes*** HOOKER fl., Fl. Brit. Ind. III (1882) 668.-C.K. SCHNEIDER in SARGENT, Pl. Wils. III (1916) 339.-MERRILL in Lingn. Sci. Journ. IV (1927) 134.-TSIANG in Sunyatsenia II (1934) 136; III(1936) 144, pro parte.-WOODSON in Sunyatsenia III (1936) 91, pro parte.

*Trachelospermum divaricatum* var. *brevisepalum* SCHNEIDER in SARGENT, Pl. Wils. III (1916) 338, pro parte.

*Trachelospermum asiaticum* var. *brevisepalum* TSIANG in Sunyatsenia II (1934) 134.

*Trachelospermum brevisepalum* MASAMUNE in Trans. Nat. Hist. Soc. Formos. XXVIII (1938) 235.

Nom. Nipp. *Hime-teikakazura*.

Distr. Formosa, China, Indo-China.

5) ***Trachelospermum liukiense*** HATUSIMA, sp. nov.

*Trachelospermum jasminoides* (non LEM.) ENGLER in Bot. Jahrb. VI (1885) 65, no. 1152.

*Trachelospermum divaricatum* var. *brevisepalum* SCHNEIDER in SARGENT, Pl. Wils. III (1916) 338, pro parte.-WILSON in Journ. Arn. Arb. I (1919) 183.-SAKAGUTI, Gen. Ind. Fl. Okinawa (1924) 22.

*Trachelospermum gracilipes* (non HOOKER fl.) WOODSON in Sunyatsenia III (1936) 91, pro parte.

*Trachelospermum asiaticum* var. *brevisepalum* TSIANG, l.c. II (1934) 135, pro parte.

Frutex alte scandens. Ramuli hornotini teretes puberuli circ. 4 mm. crassi, annotini glabrescentes vel glabri. Folia opposita obovato-oblonga vel obovato-elliptica prelumque 5 cm. longa 1.5-2.7 cm. lata (plerumque 2 cm.) coriacea vel teniter coriacea, apice mucronato-acuta ad summum obtusa basi acuminata vel acuta, margine integra, supra glabra infra ad costas paucè pilosa, costa supra impressa subtus valde elevata. Petioli circ. 5 mm. longi rufo-hirsuti.

Inflorescentiæ cymoso-paniculatæ terminales axillaresque 3-5 cm. latæ, cymæ 2-3 floræ. pedunculis primariis 2-3 cm. longis 1-1.3 mm. crassis hirsutis, radiis secundariis 3, circ. 1 cm. longis 0.8-1 mm. crassis basi bracteatis, bracteis per brevissimis margine ciliolatis, tertianis (pedicellis) 3-5 mm. longis basi bracteolis ovatis circ. 1 mm. longis margine fusco-ciliatis suffultis.



Fig. 4. *Trachelospermum liukiuense* HATUSIMA ( $\times 1$ )

Sepala ovato-rotundata adpressa 0.5-0.7 mm. longa 0.6-0.8 mm. lata margine fusco-ciliolata intus basi glandulis 10 instructa. Corolla alba, tubus 3-4 mm. longus supra  $3/5$  dilatatus extus glaber intus inter stamina dense hirsutus, lobi late oblique obovato-elliptici margine recurvi circ. 6 mm. longi apicem versus 6 mm. lati. Antheræ pauce exertæ. Ovarium glabrum bipartitum.

Nom. Nipp. *Ryûkyû-teikakazura*.

Hab. Ryûkyû. Kunigami in insl. Okinawa (leg. S. SONOHARA, Aprili 1922, type).

Kyûsyû. Prov. Oosumi; insl. Amami-ôshima (leg. H. OHBA, Maio 1924), insl. Yakusima (leg. HATUSIMA, Julio 1929), Satamura (leg. M. KOYAMA, Oct.

1913).

I suppose this plant may be a Ryûkyû form described by C. K. SCHNEIDER as *T. divaricatum* var. *brevisepalum*, but unfortunately, I have not yet seen FAURIE, no. 249 from Formosa which C. K. SCHNEIDER used as a type of his variety *brevisepalum* which was recently identified by WOODSON with *T. gracilipes*. However, the present species differs from the Formosan forms in its stout rusty-pubescent branchlets, its much shorter corolla tubes, its very short, obtuse adpressed sepals being hirsute toward the tip, and its somewhat thicker leaves puberulent beneath. In its thicker leaves and relatively stout branchlets, this new species resembles *T. foetidum* NAKAI with much longer glabrous sepals, much larger flowers, and broader flower-buds.

## 羊 齒 雜 記 (其五)

緒 方 正 資

Masasuke OGATA : Notes on Japanese Ferns (V)

○ *Actinostachys digitata* WALLICH, List 1 (1828); HOOKER, Gen. t. III (1842); NAKAI in Journ. Jap. Bot. XIII-3, 138 (1937).

*Schizaea digitata* (L.) Sw. Syn. 150, 380 t. 4. f. 1. 1806; HOOKER et BAKER, Syn. Fil. 430; PRANTL, Schiz. 133. (1881); CHRIST, Farnkr. der Erde 344. (1897); DIELS in ENGL. et PRANTL., Nat.-Pfl. I-4, 363.

*Acrostichum digitatum* L., Sp. Pl. II. 1068 (1753).

*Belvisia digitata* MIRBEL Hist. nat. vég. V. 473.

Nom. Jap. *Sima-fusasida* (nom. nov.).

Hab. Taiwan : Kuwarun-sya. Prov. Taito (T. MASUDA, 30. Jan. 1939).

Distr. Asia, Polynesia trop., Madagascar, Taiwan.

A new addition to the Flora of Taiwan.

此ノ種ノ植物ハ臺灣ニハ未ダ知ラレテキナカツタガ本年春友人増田朋來君ハ舊クワルン社デ採集シテ送ツテヨコサレタ。生育地ハ楓樹等ノ成育シテキル舊開墾地ノ二次林デ比較的乾燥セル砂礫地デ極メテ稀有ノ由デアル。臺灣デハ新